

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	TUNING ELECTRODES USED IN A REACTOR FOR ELECTROCHEMICALLY PROCESSING A MICROELECTRONIC WORKPIECE
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Application Number : 09/866463
Confirmation Number: 4951
First Named Applicant: Gregory Wilson
Attorney Docket Number: 291958157US3
Art Unit: 1742
Examiner: D. R. Valentine



Search string: (1526644 or 1881713 or 2256274 or 3616284 or 3664933 or 3706635 or 3706651 or 3716462 or 3878066 or 3930963 or 3968885 or 4000046 or 4022679 or 4046105 or 4082638 or 4134802 or 4170959 or 4238310 or 4304641 or 4323433 or 4378283 or 4384930 or 4391694 or 4431361 or 4437943 or 4449885 or 4451197 or 4463503 or 4466864 or 4495153 or 4500394 or 4566847 or 4576689 or 4604177 or 4604178 or 4634503 or 4639028 or 4648944 or 4648944 or 4670126 or 4693017 or 4761214 or 4770590 or 4781800 or 4800818 or 4828654 or 4864239 or 4898647 or 4902398 or 4906341).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
HW	AA	1526644	1925-02-17	Pinney			
	AB	1881713	1932-10-11	Laukel			
	AC	2256274	1941-09-16	Boedecker et al.			
	AL	3616284	1971-10-01	Bodmer et al.			
	AM	3664933	1972-05-23	Clauss			
	AN	3706635	1972-12-19	Kowalski			
	AO	3706651	1970-12-30	Leland			
	AP	3716462	1973-02-13	Jensen			
	AQ	3878066	1975-04-15	Dettke et al.			
	AR	3930963	1976-01-06	Polichette et al.			
	AS	3968885	1976-07-13	Hassan et al.			
	AT	4000046	1976-12-28	Weaver			
	AU	4022679	1977-05-10	Koziol et al.			
	AV	4046105	1977-09-06	Gomez			
	AW	4082638	1978-04-04	Jumer			
	AX	4134802	1976-01-16	Herr			
NW	AY	4170959	1979-10-16	Aigo			

HGL	AZ	4238310	1980-12-09	Eckler et al.			
	AA1	4304641	1981-12-08	Grandia et al.			
	AB1	4323433	1982-04-06	DAVID M. LOCH			
	AC1	4378283	1983-03-29	MICHAEL SEYFFERT			
	AD1	4384930	1983-05-24	Eckles			
	AE1	4391694	1983-07-05	BENGT W. RUNSTEN			
	AF1	4431361	1984-02-14	Bayne			
	AG1	4437943	1984-03-20	ALEXANDER F. BECK			
	AH1	4449885	1984-05-22	Hertel et al.			
	AI1	4451197	1984-05-01	Lange			
	AJ1	4463503	1984-08-07	ROBERT D. APPELEGATE			
	AK1	4466864	1984-08-21	DUANE E. BACON			
	AL1	4495153	1985-01-22	MINORU MIDORIKAWA			
	AM1	4500394	1985-02-19	JOHN S. RIZZO			
	AN1	4566847	1986-01-28	TAKASHI MAEDA			
	AO1	4576689	1986-03-18	ALMAXUD M. MAKKAEV			
	AP1	4604177	1986-08-05	OLIVO G. SIVILOTTI			
	AQ1	4604178	1986-08-05	DALE R. FIEGENER			
	AR1	4634503	1987-01-06	DANIEL NOGAVICH			
	AS1	4639028	1987-01-01	Olson			
	AT1	4648944	1987-03-10	RONALD W. GEORGE			
	AU1	4648944	1987-03-10	George et al.			
	AV1	4670126	1987-06-01	Messer et al.			
	AW1	4693017	1987-09-15	Oehler et al.			
	AX1	4761214	1988-08-02	EDMUND R. HINMAN			
	AY1	4770590	1988-09-01	Hugues et al.			
	AZ1	4781800	1988-11-01	LEE M. GOLDMAN			
	AA2	4800818	1989-01-31	Kawaguchi et al.			
	AB2	4828654	1989-05-09	RONALD G. REED			
	AC2	4864239	1989-09-05	Casarcia et al.			
	AD2	4898647	1990-02-01	Luce et al.			
	AE2	4902398	1990-02-20	LARRY E. HOMSTAD			
HW	AF2	4906341	1990-03-06	KOJI YAMAKAWA			

Signature

Examiner Name	Date
Harry B. Wall, Jr.	10/6/05

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First Named Applicant: Gregory Wilson
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Search string: (4924890 or 4944650 or 4949671 or 4959278 or 4962726 or 5000827 or 5026239 or 5054988 or 5055036 or 5061144 or 5078852 or 5083364 or 5096550 or 5110248 or 5115430 or 5125784 or 5128912 or 5146136 or 5151168 or 5156730 or 5168886 or 5168887 or 5168887 or 5172803 or 5174045 or 5178512 or 5178639 or 5180273 or 5183377 or 5186594 or 5209817 or 5217586 or 5222310 or 5227041 or 5228232 or 5228966 or 5232511 or 5235995 or 5238500 or 5252137 or 5256262 or 5256274 or 5301700 or 5302464 or 5316642 or 5326455 or 5332445 or 5344491 or 5368711 or 5372848).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
NW	AI	4924890	1990-05-15	Giles et al.			
	AJ	4944650	1990-07-01	Matsumoto			
	AK	4949671	1990-08-21	CECIL J. DAVIS			
	AL	4959278	1990-09-25	HIDENORI SHIMAUCH			
	AM	4962726	1990-10-16	Matsushita et al.			
	AN	5000827	1991-03-19	VIRGIL E. SCHUSTER			
	AO	5026239	1991-06-25	Chiba			
	AP	5054988	1991-10-08	Shiraiwa			
	AQ	5055036	1991-10-08	Asano et al.			
	AR	5061144	1991-10-29	MASAMI AKIMOTO			
	AS	5078852	1992-01-07	IAN Y.K. YEE			
	AT	5083364	1992-01-28	Olbrich et al.			
NW	AU	5096550	1992-03-17	STEVEN T. MAYER			

h/w	AV	5110248	1992-05-05	Asano et al.			
	AW	5115430	1992-05-19	ELLEN L. HAHNE			
	AX	5125784	1992-06-30	Asano			
	AY	5128912	1992-07-01	Hug et al.			
	AZ	5146136	1992-09-08	TOSHIO OGURA			
	AA1	5151168	1992-09-29	TERRY L. GILTON			
	AB1	5156730	1992-10-20	ANILKUMAR C. BHATT			
	AC1	5168886	1992-12-08	Thompson et al.			
	AD1	5168887	1992-12-08	Thompson et al.			
	AE1	5168887	1992-12-08	RAYMON F. THOMPSON			
	AF1	5172803	1992-12-22	Lewin			
	AG1	5174045	1992-12-29	Thompson et al.			
	AH1	5178512	1993-01-01	Skrobak			
	AI1	5178639	1993-01-12	Nishi			
	AJ1	5180273	1993-01-19	Salaya et al.			
	AK1	5183377	1993-02-02	Becker et al.			
	AL1	5186594	1993-02-16	Toshima et al.			
	AM1	5209817	1993-05-11	UMAR M. AHMAD			
	AN1	5217586	1993-06-08	MADHAV DATTA			
	AO1	5222310	1993-06-29	RAYMON F. THOMPSON			
	AP1	5227041	1993-07-13	BRUCE N. BROGDEN			
	AQ1	5228232	1993-07-20	RODNEY MILES			
	AR1	5228966	1993-07-20	SATOSHI MURATA			
	AS1	5232511	1993-08-03	Bergman			
	AT1	5235995	1993-08-17	Bergman et al.			
	AU1	5238500	1993-08-24	Bergman			
	AV1	5252137	1993-10-12	Tateyama et al.			
	AW1	5256262	1993-10-26	Blomsterberg			
	AX1	5256274	1993-10-26	JAIME PORIS			
	AY1	5301700	1994-04-12	Kamikawa et al.			
	AZ1	5302464	1994-04-12	TAKUJI NOMURA			
	AA2	5316642	1994-05-31	DAVID J. YOUNG			
	AB2	5326455	1994-07-01	Kubo et al.			
	AC2	5332445	1994-07-26	Bergman			
	AD2	5344491	1994-09-06	MARIKO KATOU			
	AE2	5368711	1994-11-29	JAIME PORIS			
h/w	AF2	5372848	1994-12-13	KIM J.			

Remarks

Note: Remarks are not for responding to an office action.

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Signature

Examiner Name	Date
Dany A. O'Neill, Jr.	10/6/05

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Search string: (5376176 or 5377708 or 5377708 or 5388945 or 5391285 or 5421987 or 5429733 or 5437777 or 5442416 or 5443707 or 5445484 or 5460478 or 5464313 or 5472502 or 5489341 or 5500081 or 5516412 or 5522975 or 5527390 or 5544421 or 5549808 or 5571325 or 5571325 or 5575611 or 5584310 or 5597460 or 5620581 or 5639206 or 5639316 or 5658387 or 5658387 or 5660517 or 5662788 or 5664337 or 5670034 or 5676337 or 5678320 or 5678320 or 5681392 or 5700127 or 5711646 or 5723028 or 5744019 or 5746565 or 5759006 or 5762751 or 5765444 or 5765889 or 5785826 or 5871626).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
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	AJ	5377708	1995-01-03	ERIC J. BERGMAN			
	AK	5377708	1995-01-03	Bergman et al.			
	AL	5388945	1995-02-14	Garric et al.			
	AM	5391285	1995-02-21	WILLIAM H. LYTLE			
	AN	5421987	1995-06-06	Tzanavaras et al.			
	AO	5429733	1995-07-04	HIROFUMI ISHIDA			
	AP	5437777	1995-08-01	SHUJI KISHI			
	AQ	5442416	1995-08-15	Tateyama et al.			
	AR	5443707	1995-08-22	Mori			
	AS	5445484	1995-08-29	Kato et al.			
	AT	5460478	1995-10-24	Akimoto et al.			
HW	AU	5464313	1995-11-07	Ohsawa			

NLW	AV	5472502	1995-12-05	WILLIAM T. BATCHELDER			
	AW	5489341	1996-02-06	Bergman et al.			
	AX	5500081	1996-03-19	Bergman			
	AY	5516412	1996-02-06	Andricacos et al.			
	AZ	5522975	1996-06-01	Andricacos et al.			
	AA1	5527390	1996-06-18	Ono et al.			
	AB1	5544421	1996-08-13	Thompson et al.			
	AC1	5549808	1996-08-27	MUKTA S. FAROOQ			
	AD1	5571325	1996-11-05	Ueyama et al.			
	AE1	5571325	1996-11-05	TSUTOMU UEYAMA			
	AF1	5575611	1996-11-19	Thompson et al.			
	AG1	5584310	1996-12-17	ERIC J. BERGMAN			
	AH1	5597460	1997-01-28	H. VINCENT REYNOLDS			
	AI1	5620581	1997-04-15	Ang			
	AJ1	5639206	1997-06-17	Oda et al.			
	AK1	5639316	1997-06-17	CYRIL CABRAL			
	AL1	5658387	1997-08-19	Reardon et al.			
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	AP1	5664337	1997-09-09	Davis et al.			
	AQ1	5670034	1997-09-23	KENNETH J. LOWERY			
	AR1	5676337	1997-10-01	Giras et al.			
	AS1	5678320	1997-10-01	Thompson et al.			
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	AU1	5681392	1997-10-28	EUGENE A. SWAIN			
	AV1	5700127	1997-12-23	JUNJI HARADA			
	AW1	5711646	1998-01-01	Ueda et al.			
	AX1	5723028	1998-03-03	JAIME PORIS			
	AY1	5744019	1998-04-28	Ang			
	AZ1	5746565	1998-05-01	Tepolt			
	AA2	5759006	1998-06-01	Miyamoto et al.			
	AB2	5762751	1998-06-09	MARTIN C. BLECK			
	AC2	5765444	1998-06-16	PAUL BACCHI			
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	AE2	5785826	1998-07-28	ALEX GREENSPAN			
NLW	AF2	5871626	1999-02-16	DOUGLAS E. CRAFTS			

Remarks

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Signature

Examiner Name	Date
<i>Harry P. White, III</i>	<i>10/6/05</i>

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Search string: (5871805 or 5882498 or 5908543 or 5925227 or 5932077 or 5980706 or 5985126 or 5989406 or 6004828 or 6027631 or 6053687 or 6074544 or 6090260 or 6091498 or 6099702 or 6099712 or 6110011 or 6110346 or 6136163 or 6139712 or 6140234 or 6156167 or 6159354 or 6162344 or 6162488 or 6174425 or 6174796 or 6179983 or 6193859 or 6228232 or 6234738 or 6251238 or 6251528 or 6258220 or 6261433 or 6270647 or 6277263 or 6318951 or 6322112 or 6322677 or 6342137 or 6391166 or 6402923 or 6444101 or 6491806 or 6562421 or 6599412 or 6623609 or 6632334 or 6709562).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
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	AJ	5882498	1999-03-16	VALERY DUBIN			
	AK	5908543	1999-06-01	TAKASHI MATSUNAMI			
	AL	5925227	1999-07-01	Kobayashi et al.			
	AM	5932077	1999-08-03	H. VINCENT REYNOLDS			
	AN	5980706	1999-11-09	MARTIN BLECK			
	AO	5985126	1999-11-16	MARTIN C. BLECK			
	AP	5989406	1999-11-23	CHARLES P. BEETZ			
	AQ	6004828	1999-12-21	KYLE M. HANSON			
	AR	6027631	2000-02-22	ELIOT K. BROADBENT			
W	AS	6053687	2000-04-25	THOMAS I. KIRKPATRICK			

NW	AT	6074544	2000-06-13	JONATHAN D. REID			
I	AU	6090260	2000-07-18	SATOSHI INOUE			
	AV	6091498	2000-07-18	KYLE HANSON			
	AW	6099702	2000-08-08	JONATHAN D. REID			
	AX	6099712	2000-08-08	THOMAS L. RITZDORF			
	AY	6110011	2000-08-29	SASSON SOMEKH			
	AZ	6110346	2000-08-29	JONATHAN D. REID			
	AA1	6136163	2000-10-24	ROBIN CHEUNG			
	AB1	6139712	2000-10-31	EVAN E. PATTON			
	AC1	6140234	2000-10-31	Uzoh et al.			
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	AG1	6162488	2000-12-19	Gevelber et al.			
	AH1	6174425	2001-01-16	CINDY R. SIMPSON			
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	AK1	6193859	2001-02-27	ROBERT J. CONTOLINI			
	AL1	6228232	2001-05-08	DANIEL J. WOODRUFF			
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	AN1	6251238	2001-06-26	Kaufman et al.			
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	AQ1	6261433	2001-07-17	UZIEL LANDAU			
	AR1	6270647	2001-08-07	LYNDON W. GRAHAM			
	AS1	6277263	2001-08-21	LINLIN CHEN			
	AT1	6318951	2001-11-20	WAYNE J. SCHMIDT			
	AU1	6322112	2001-11-27	Franklin Duncan			
	AV1	6322677	2001-11-27	Daniel Woodruff			
	AW1	6342137	2002-01-29	Daniel Woodruff			
	AX1	6391166	2002-05-21	HUI WANG			
	AY1	6402923	2002-06-11	Steven Mayer			
NW	AZ1	6444101	2002-03-14	JOSEPH			

				STEVENS			
W	AA2	6491806	2002-12-10	Valery Dubin			
	AB2	6562421	2002-11-07	Go Sudo			
	AC2	6599412	2003-07-29	Lyndon Graham			
	AD2	6623609	2001-09-27	Randy Harris			
	AE2	6632334	2002-12-05	Timothy Anderson			
W	AF2	6709562	2004-03-01	Andricacos et al.			

Remarks

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Signature

Examiner Name	Date
<i>Lyndon D. Wilf</i>	<i>10/6/05</i>

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Title of Invention

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Search string: (6755954).pn



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init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
PW	AI	6755954	2004-06-29	Mayer et al.			

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Signature

Examiner Name	Date
Harry S. Wilson, III	10/6/05



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete If Known		
			Application Number	09/866,463-Conf. #4951	
			Filing Date	May 24, 2001	
			First Named Inventor	Gregory J. Wilson	
			Art Unit	1742	
			Examiner Name	D. R. Valentine	
Sheet	1	of	2	Attorney Docket Number	291958157US3

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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FW		US-2001-0024611	09-27-2001	Daniel Woodruff	
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		US-2002-0125141	09-12-2002	Gregory Wilson	
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		US-2003-0038035	02-27-2003	Gregory Wilson	
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		US-2003-0127337	07-10-2003	Kayle Hanson	
		US-2004-0031693	02-19-2004	Linlin Chen	
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		US-4,495,453	01-22-1985	HAJIMU INABA	
		US-4,760,671	08-02-1988	WILLIAM R. WARD	
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		US-6,168,695	01-02-2001	DANIEL J. WOODRUFF	
		US-6,221,230	01-01-2001	HIROMITSU TAKEUCHI	
		US-6,365,729	01-01-2001	Sanjay Tyagi	
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		US-6,565,729	01-24-2002	Linlin Chen	
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		US-60/143,769		McHugh	
		US-60/182,160		McHugh et al.	
		US-60/206,663		Wilson et al.	
		US-60/294,690		Gibbons et al.	
		US-60/316,597		Hanson	
		US-60/607,046		Klocke	
		US-60/607,460		Klocke	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
FW		WO-01/46910			
Examiner Signature	Larry S. Will, Jr.			Date Considered	10/6/05



PTO/SB/08a/b (08-03)
Approved for use through 07/31/2008. OMB 0851-0031
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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	09/866,463-Conf. #4951
				Filing Date	May 24, 2001
				First Named Inventor	Gregory J. Wilson
				Art Unit	1742
				Examiner Name	D. R. Valentine
Sheet	2	of	2	Attorney Docket Number	291958157US3

WO-02/17203				
WO-03/18874				

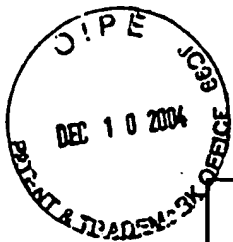
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
HW		DUBIN, V.M., "Electrochemical Deposition of Copper for On-Chip Interconnects," Advanced MicroDevices	

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Examiner Signature	Harry S. Will; JH	Date Considered	10/6/05
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
HW		US-6,051,284	04-18-2000	JOSHUA BYRNE	
HW		US-6,678,055	05-29-2003	Ofer Du-Nour	
HW		US-6,773,571	08-10-2004	Steven Mayer	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY			
HW		JP-11036096-A	02-09-1999	NEC Corp		
		JP-11080993-A	03-26-1999	Ebara Corp		
		JP-4311591	11-04-1992	Sumitomo Metal Ind. Ltd.		
		JP-5195183-A	08-03-1993	Mitsubishi Electric Corp		
		JP-6017291-A	01-25-1994	NEC Corp		
		JP-6073598-A	03-15-1994	Suganuma Keiichiro		
		JP-6224202-A	08-12-1994	Ok Electric Ind Co. Ltd.		
		JP-7113159-A	05-02-1995	Canon Inc.		
		JP-7197299-A	08-01-1995	Casio Computer Co. Ltd.		

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HW		PATENT ABSTRACT OF JAPAN, "Organic Compound and its Application," Publication No. 08-003153, Publication Date: January 9, 1996	
HW		PATENT ABSTRACT OF JAPAN, English Abstract Translation - Japanese Utility Model No. 2538705, Publication Date: August 25, 1992	

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Examiner Signature	Darryl S. Wilk, #6	Date Considered	10/6/05
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